

Weekly report (2013.8.26 ~9.1)

Done

- 1) Reading the documents as well as the example codes of Equalizer, it's easier to understand the concepts in the framework (e.g. window, pipe and channel...), but the API is of many functions and complex, even the examples are hard to understand totally. So, I still have no idea how to adapt our code of the meteorology project into the framework.
- 2) Read several papers ([2][3][4]) about edge/contour extraction, to see if we can do something when it comes to large data, based on my previous work. (e.g. something like <http://hal.inria.fr/docs/00/10/68/32/PDF/paper.pdf> [1], which convert a scene into vectorized lines to reduce the size of data that needs to be transferred).
- 3) Tried to merge the city data provided by e-city (divided into many small blocks) to get a large data, so that we can use it in the following research. It is a problem of finding out the scale and offset between the model and satellite maps, cause the model is not so accurate, we use "least squares".
- 4) Prepare for the interim assessment and the discussion with Prof. Ma, making ppts.

To Do

- 1) Continue learning Equalizer together with Tianye, if we still can't work it through in another week, an evaluation of the current plan may be needed.

References

- [1].Quillet J C, Thomas G, Granier X, et al. Using expressive rendering for remote visualization of large city models[C]//Proceedings of the eleventh international conference on 3D web technology. ACM, 2006: 27-35.
- [2].Bhat P, Zitnick C L, Cohen M, et al. Gradientshop: A gradient-domain optimization framework for image and video filtering[J]. ACM Transactions on Graphics (TOG), 2010, 29(2): 10.
- [3].Raskar R, Tan K H, Feris R, et al. Non-photorealistic camera: depth edge detection and stylized rendering using multi-flash imaging[C]//ACM Transactions on Graphics (TOG). ACM, 2004, 23(3): 679-688.
- [4].DeCarlo D, Finkelstein A, Rusinkiewicz S, et al. Suggestive contours for conveying shape[C]//ACM Transactions on Graphics (TOG). ACM, 2003, 22(3): 848-855.